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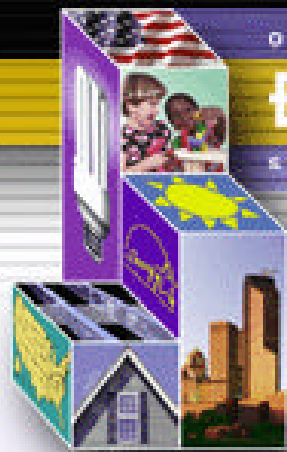
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STATE AND COMMUNITY PROGRAMS

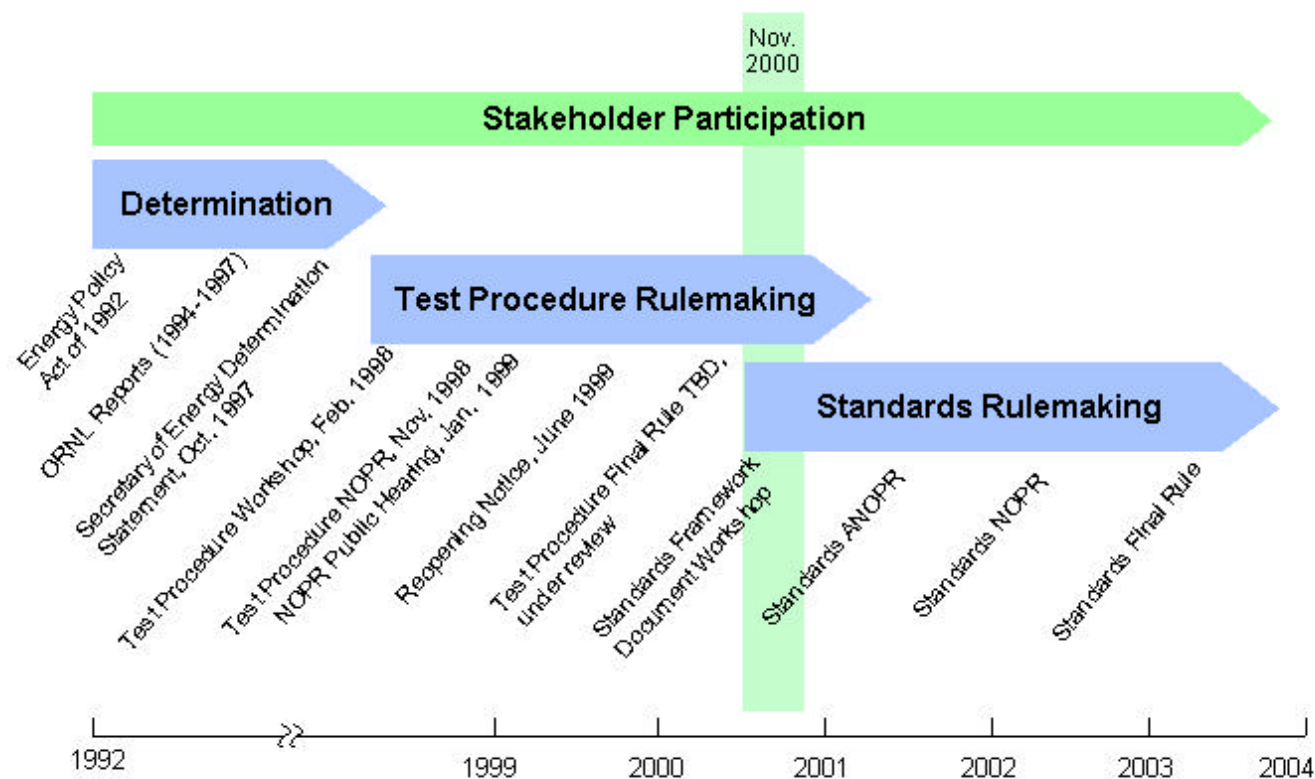
U.S. Department of Energy Workshop on Standards for Distribution Transformers

Carl Adams

November 1, 2000

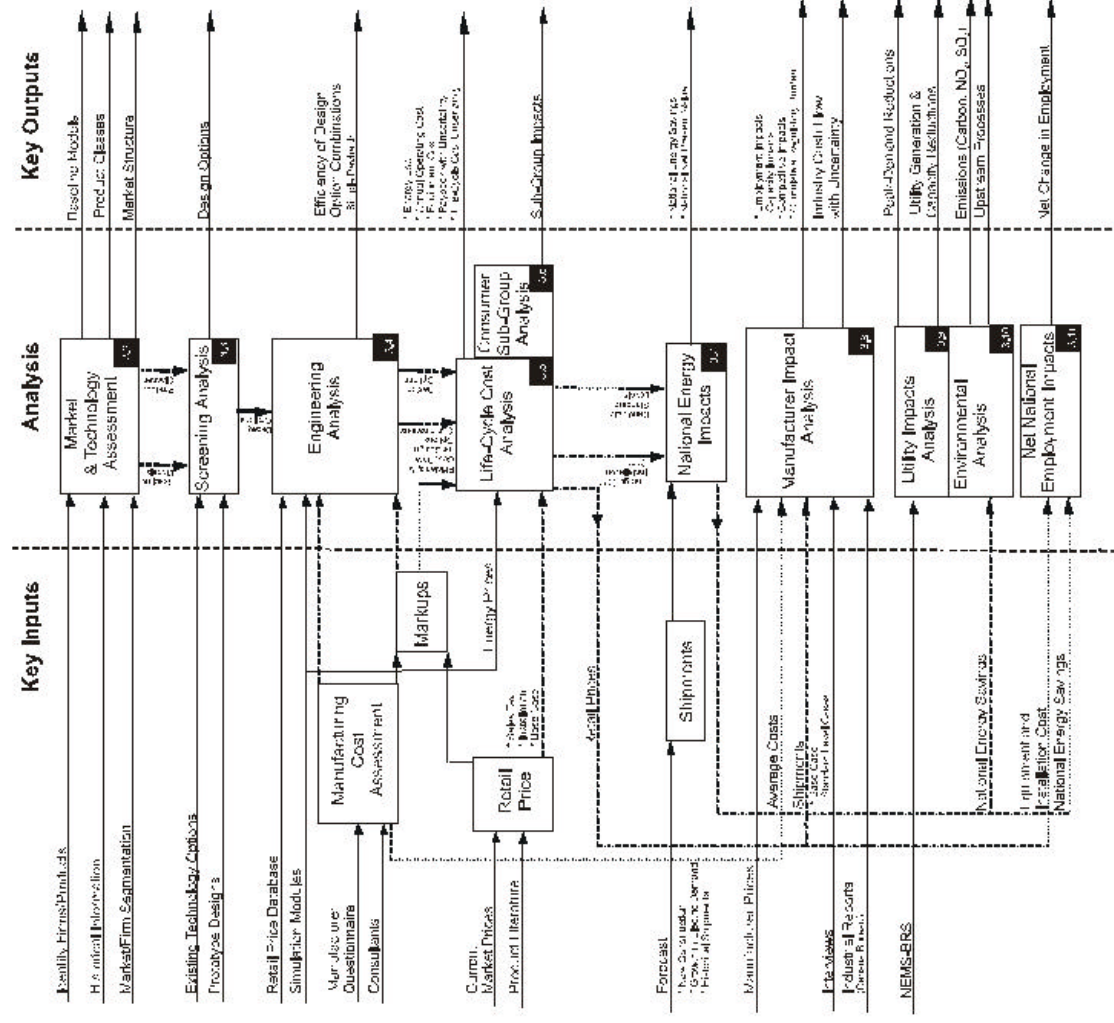


Distribution Transformer Standards Setting Process





Flow Diagram of Analyses for Distribution Transformer Energy Conservation Standards





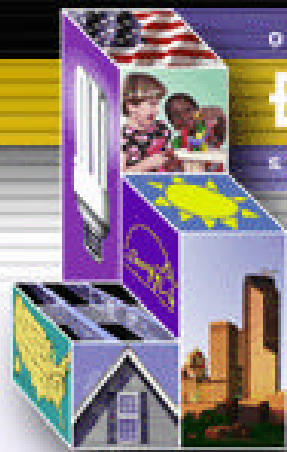
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ANOPR

- Engineering Analysis
- Life-Cycle Cost Analysis
- Preliminary Energy Saving
- Candidate Standard Levels



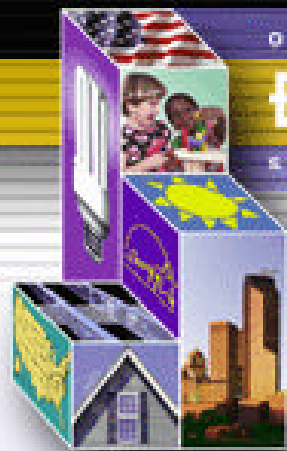
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NOPR

- Consumer Analysis
- Manufacturer Impact Analysis
- Utility Impacts Analysis
- Environmental Analysis
- Employment Impacts
- Proposed Standards



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Final Rule



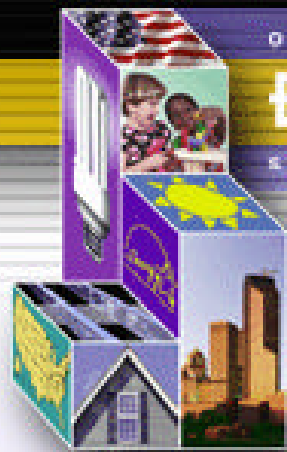
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Transformers Considered

Transformers designed to continuously transfer electrical energy either single phase or three phase from a primary distribution circuit to a secondary distribution circuit, within a secondary distribution circuit, or to a consumer's service circuit; limited to transformers with primary voltage of 480 V to 35 kV, a secondary voltage of 120 V to 600 V, a frequency of 55-65 Hz, and a capacity of 10 kVA to 2500 kVA for liquid-immersed transformers or 5 kVA to 2500 kVA for dry-type transformers.



Product Class

- Parameters of Distinction
- Affects on Efficiency
- Affects on Utility